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1 A component-based approach to distributed system management: a use case with self-manageable J2EE clusters

Sara Bouchenak, Fabienne Boyer, Emmanuel Cecchet, Sébastien Jean, Alan Schmitt, Jean-Bernard Stefani

September 2004 **Proceedings of the 11th workshop on ACM SIGOPS European workshop: beyond the PC EW11**

Publisher: ACM Press

Full text available: pdf(100.29 KB) Additional Information: full citation, abstract, references

Clustering has become a de facto standard to scale distributed systems and applications. However, the administration and management of such systems still use ad-hoc techniques that partially fulfill the needs. The expertise needed to configure and tune these systems goes beyond the capacity of a single system administrator or software developer.We present a modular software infrastructure to build command and control loops to manage large scale distributed systems. Our approach uses a reflective ...

2 A JMX toolkit for merging network management systems

Feng Lu, Kris Bubendorfer

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(149.38 KB) Additional Information: full citation, abstract, references, index terms

The ever increasing size of networks has resulted in a corresponding escalation of administration costs and lengthy deployment cycles. Clearly, more scalable and flexible network management systems are required to replace existing centralised services. The work described in this paper forms part of a new network management system that fuses dynamic extensibility, Java Management Extension (JMX), and mobile agents. The primary focus is on integration with the many widely deployed legacy SNMP-base ...

Keywords: JMX, SNMP, network management

3 Application servers, enterprise computing, and software engineering: Developing and managing software components in an ontology-based application server

Daniel Oberle, Andreas Eberhart, Steffen Staab, Raphael Volz

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(317.85 KB) Additional Information: full citation, abstract, references

Application servers provide many functionalities commonly needed in the development of a complex distributed application. So far, the functionalities have mostly been developed and managed with the help of administration tools and corresponding configuration files, recently in XML. Though this constitutes a very flexible way of developing and administrating a distributed application, e.g. an application server with its components, the disadvantage is that the conceptual model underlying the diff ...

4 At the forge: Entity beans
Reuven M. Lerner
January 2002 **Linux Journal**, Volume 2002 Issue 93
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(19.93 KB) Additional Information: full citation, index terms

5 Autonomic Web-Based Simulation
Yingping Huang, Gregory Madey
April 2005 **Proceedings of the 38th annual Symposium on Simulation ANSS '05**
Publisher: IEEE Computer Society
Full text available: pdf(264.78 KB) Additional Information: full citation, abstract, index terms

Many scientific simulations are large programs which despite careful debugging and testing will probably contain errors when deployed to the Web for use. Based on the assumption that such scientific simulations do contain errors and the underlying computing systems do fail due to hardware or software errors, the authors investigate and explore robust methods for developing and deploying autonomic web-based simulations(AWS) based on the Vision of Autonomic Computing.

6 Customization 2: A1: end-user programming for web-based system administration
Eser Kandogan, Eben Haber, Rob Barrett, Allen Cypher, Paul Maglio, Haixia Zhao
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
Publisher: ACM Press
Full text available: pdf(824.99 KB) Additional Information: full citation, abstract, references, index terms

System administrators work with many different tools to manage and fix complex hardware and software infrastructure in a rapidly paced work environment. Through extensive field studies, we observed that they often build and share custom tools for specific tasks that are not supported by vendor tools. Recent trends toward web-based management consoles offer many advantages but put an extra burden on system administrators, as customization requires web programming, which is beyond the skills of ma ...

Keywords: end-user programming, spreadsheets, system management, web-portal user interfaces

7 Distributed systems and grid computing (DSGC): xSpace: a tuple space for XML & its application in orchestration of web services
Umesh Bellur, Siddharth Bondre
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(168.13 KB) Additional Information: full citation, abstract, references, index terms

Today's extended enterprise calls for the integration of several disparate systems built using multiple technologies and executing across firewall boundaries. The integration is usually done in the context of workflow orchestration and in its current incarnation, this extends across multiple enterprises over the internet. Given the disparity of these systems that need to be integrated in the workflow, these systems are usually exposed as web services to bring about a common denominator. By impli ...

Keywords: XML, enterprise application integration

8 Infrastructure et composants III: Open-service-platform instrumentation: JMX management over OSGI

Stéphane Frénot, Dan Stefan

June 2004 **Proceedings of the 1st French-speaking conference on Mobility and ubiquity computing UbiMob '04**

Publisher: ACM Press

Full text available: pdf(145.35 KB) Additional Information: full citation, abstract, references, index terms

Pervasive computing tries to narrow computer devices to the enduser in order to simplify access to his services. This trends currently visible in game online (Xbox live) or with the convergence between phone/internet/numeric television (freebox) is only made available by independent providers that works at defining closed platforms.Opening those " service platforms " leads to many problems when considering exploitation of those services by multiple providers. In this article, we will ...

Keywords: JMX, OSGi, administration, instrumentation, middleware, open service platforms

9 MADAPT: managed aspects for dynamic adaptation based on profiling techniques

Robin Liu, Celina Gibbs, Yvonne Coady

October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware ARM '04**

Publisher: ACM Press

Full text available: pdf(541.85 KB) Additional Information: full citation, abstract, references

An increasingly significant cost associated with dynamically adaptive middleware is the complexity of managing the code responsible for adaptive behaviour. It is not surprising that, due to the fine-grained nature of trace-data collection and the subtle adaptation that can result, more flexible systems are typically more complex to manage. This paper makes the case for using aspect-oriented programming (AOP) [6] as a means to achieve adaptive middleware based on fine-grained, customizable, pr ...

10 Posters: An application server for the semantic web

Daniel Oberle, Steffen Staab, Raphael Volz

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Publisher: ACM Press

Full text available: pdf(254.03 KB) Additional Information: full citation, abstract, references, index terms

The Semantic Web relies on the complex interaction of several technologies involving ontologies. Therefore, sophisticated Semantic Web applications typically comprise more than one software module. Instead of coming up with proprietary solutions, developers should be able to rely on a generic infrastructure for application development in this context. We call such an infrastructure Application Server for the Semantic Web whose design and development are based on existing Application Servers. How ...

Keywords: application server, ontology, semantic web

11 Q focus: enterprise distributed computing: Web services and IT management

Pankaj Kumar
July 2005 **Queue**, Volume 3 Issue 6
Publisher: ACM Press
Full text available: pdf(204.09 KB) htm(20.34 KB) Additional Information: full citation, abstract, references, index terms

Web services arent just for application integration anymore.

12 Semantic management of middleware

Daniel Oberle
October 2004 **Proceedings of the 1st international doctoral symposium on Middleware DSM '04**
Publisher: ACM Press
Full text available: pdf(112.87 KB) Additional Information: full citation, abstract, references, index terms

The Ph.D. proposal addresses the complexity of building distributed applications and systems with Application Servers and Web Services middleware, respectively. Despite their flexible XML-based configuration, taming the ever growing complexity remains all but an easy task. To remedy such problems, the thesis proposes an ontology-based approach to support the management (i.e. development and administration) of Application Server and Web Services based applications. The ontology captures proper ...

Keywords: application server, middleware, ontology, semantic technology, service oriented architecture, web service

13 Supporting application development in the semantic web

Daniel Oberle, Steffen Staab, Rudi Studer, Raphael Volz
May 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(1.89 MB) Additional Information: full citation, abstract, references, index terms

The Semantic Web augments the current WWW by giving information a well-defined meaning, better enabling computers and people to work in cooperation. This is done by adding machine understandable content to Web resources. Such added content is called metadata, whose semantics is provided by referring to an ontology---a domain's conceptualization agreed upon by a community. The Semantic Web relies on the complex interaction of several technologies involving ontologies. Therefore, sophisticated Sem ...

Keywords: Application server, KAON, KAON SERVER, Semantic Web, Wonder-Web, extensibility, interoperation, middleware, ontology, reuse, semantic middleware

14 W3-C: Delivery analysis of multicasting in BitTorrent enabled ad hoc network (MBEAN) routing

Padmini Vellore, Paul Gillard, Ramachandran Venkatesan
July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: pdf(93.98 KB) Additional Information: full citation, abstract, references, index terms

Routing in mobile ad hoc networks is one of the network layer problems and has been researched for quite some time. Yet there is still a need for newer routing protocols as

new applications emerge. BitTorrent Enabled Ad Hoc Network (BEAN) routing was proposed for applications such as a network formed by people in a conference hall, people waiting to board a flight and spectators in a ball park. BEAN is motivated by the BitTorrent protocol used by peer-to-peer networks to share large files among ...

Keywords: delay analysis, mobile ad hoc networks, peer-to-peer networks

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Terms used **java management bean** Found **12,296** of **192,876**

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1 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(611.20 KB) Additional Information: full citation, references, citings, index terms

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

2 Component technologies: Java Beans, COM, CORBA, RMI, EJB and the CORBA Component Model

Wolfgang Emmerich, Nima Kaveh

September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9**, Volume 26 Issue 5

Publisher: ACM Press

Full text available: pdf(68.35 KB) Additional Information: full citation, abstract, references, index terms

This one-day tutorial is aimed at software engineering practitioners and researchers, who are familiar with object-oriented analysis, design and programming and want to obtain an overview of the technologies that are enabling component-based development. We introduce the idea of component-based development by defining the concept and providing its economic rationale. We describe how object-oriented programming evolved into local component models, such as Java Beans and distributed object technol ...

3 Web-based and Java-based simulation: Finding a substrate for federated components on the web

John A. Miller, Andrew F. Seila, Junxiu Tao

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**

Publisher: Society for Computer Simulation International

Full text available: pdf(85.61 KB) Additional Information: full citation, abstract, references

Recent developments in software component technology have renewed the promise of reusable software. Combining this with the possibilities of sharing simulation results and

models using the Internet makes these new developments all the more important, particularly for Web-Based Simulation. Interoperability standards and data interchanges standards (e.g., XML) help facilitate having simulation models interact with other simulation models as well as other information technology components. This pap ...

4 Tutorials: Component technologies: Java beans, COM, CORBA, RMI, EJB and the CORBA component model

Wolfgang Emmerich, Nima Kaveh

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Publisher: ACM Press

Full text available: pdf(220.94 KB) Additional Information: full citation, abstract, references, citings, index terms

This one-day tutorial is aimed at software engineering practitioners and researchers, who are familiar with object-oriented analysis, design and programming and want to obtain an overview of the technologies that are enabling component-based development. We introduce the idea of component-based development by defining the concept and providing its economic rationale. We describe how object-oriented programming evolved into local component models, such as Java Beans and distributed object technol ...

5 JavaBean-based simulation with a decision making bean

Miki Fukunari, Yu-liang Chi, Philip M. Wolfe

December 1998 **Proceedings of the 30th conference on Winter simulation**

Publisher: IEEE Computer Society Press

Full text available: pdf(294.87 KB) Additional Information: full citation, references, citings, index terms

6 Java-based simulation of construction processes using Silk

Anil Sawhney, Jayachandran Manickam, André Mund, Jennifer Marble

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**

Publisher: ACM Press

Full text available: pdf(109.41 KB) Additional Information: full citation, references, citings, index terms

7 Migrating E-commerce database applications to an enterprise Java environment

Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(572.66 KB) Additional Information: full citation, abstract, references, citings, index terms

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabean, migration, relational-object mapping

8 Saving the world from bad beans: deployment-time confinement checking

Dave Clarke, Michael Richmond, James Noble

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(380.32 KB) Additional Information: full citation, abstract, references, citings, index terms

The Enterprise JavaBeans (EJB) framework requires developers to preserve architectural integrity constraints when writing EJB components. Breaking these constraints allows components to violate the transaction protocol, bypass security mechanisms, disable object persistence, and be susceptible to malicious attacks from other EJBs. We present an object confinement discipline that allows static verification of components' integrity as they are deployed into an EJB server. The confinement rules are ...

Keywords: confinement, deployment tools, enterprise JavaBeans

9 A component model for standardized web-based education

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(384.31 KB) Additional Information: full citation, abstract, references, index terms, review

We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet protocols. The service level provides a network-transparent communications layer, data ...

Keywords: authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

10 Q focus: component technologies: Untangling enterprise Java

Chris Richardson

June 2006 **Queue**, Volume 4 Issue 5

Publisher: ACM Press

Full text available: pdf(366.42 KB) htm(24.95 KB) Additional Information: full citation, abstract, references, index terms

A new breed of framework helps eliminate crosscutting concerns.

11 Resource and object management: An extensible mechanism for Long-Term Persistence of JavaBeans components

Chien-Min Wang, Shun-Te Wang, Hsi-Min Chen, Chi-Chang Huang

August 2006 **Proceedings of the 4th international symposium on Principles and practice of programming in Java PPPJ '06**

Publisher: ACM Press

Full text available: pdf(622.22 KB) Additional Information: full citation, abstract, references, index terms

Long Term Persistence for JavaBeans (LTP) is an API that supports a general mechanism for serializing JavaBeans into an XML-based text format and vice versa. As Java programming language does not currently support *orthogonal persistence*, a programmer

can choose to convert the internal state of an application into a permanent storage and vice versa using the LTP API. In this paper, we propose a mechanism that is extensible and optional for LTP, without modifying the LTP specification, to m ...

Keywords: Java, JavaBeans, LTP, XML, cache, persistence, scripting, serialization

12 Foundation of a framework to support knowledge management in the field of context-aware and pervasive computing
Philipp Amann, Gerald Quirchmayr
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(761.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a framework to combine Knowledge Management and context-aware and pervasive computing, emphasizing on synchronization and adaptation issues of workflow processes in mobile settings. The key aspect of the proposed framework is to enable adaptive, two-way interaction between context-aware systems and users in mobile settings. In contrast to existing concepts, we aim at capturing active feedback from users, which should contribute to the *Organizational Memory*, after ...

Keywords: WfMS, adaptability, context-awareness, knowledge management, local autonomy, pervasive computing, synchronization

13 Web-based specification and integration of legacy services
Ying Zou, Kostas Kontogiannis
November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(279.28 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

14 Innovative Document Systems: Mobile agent-based compound documents
Ichiro Satoh
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Publisher: ACM Press
Full text available: pdf(567.68 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a mobile agent-based framework for building mobile compound document, which can each be dynamically composed of mobile agents and can migrate itself over a network as a whole, with all its embedded agents. The key of this framework is that it builds a hierarchical mobile agent system that enables multiple mobile agents to be combined into a single mobile agent. The framework also provides several value-added mechanisms for visually manipulating components embedded in a compou ...

15 Component-based simulation on the Web?
Michael Pidd, Noelia Oses, Roger J. Brooks
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation-**

--a bridge to the future - Volume 2
Publisher: ACM Press
Full text available: pdf(81.23 KB) Additional Information: full citation, references, citings, index terms

16 A component model for stardardized web-based education
L. Anido-Rifón, M. Llamas-Nistal, M. J. Fernández-Iglesias
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(406.37 KB) Additional Information: full citation, references, index terms

Keywords: Learing technology standardization, Web-based course delivery systems, authoring tools, collaborative systems, educational web applications, learning technology, practice and experience

17 Verdantium towards a Java-enabled compound document model (poster session)
Thornton Green
January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)**
Publisher: ACM Press
Full text available: pdf(22.80 KB) Additional Information: full citation, abstract, index terms

Java Beans provides a robust mechanism for combining software components. However, to a large extent Java Beans components are currently not being combined to create documents in an environment such as a word processor or illustration program. This is not due to a weakness in the Beans property model, but rather to limitations in how Java Beans' user interfaces are currently implemented. Verdantium is a prototype Java-based API (for JDK 1.2.2 and above) for document embedding that takes a nov ...

18 Full papers: An instrumentation and control-based approach for distributed application management and adaptation
D. Reilly, A. Taleb-Bendiab, A. Laws, N. Badr
November 2002 **Proceedings of the first workshop on Self-healing systems**
Publisher: ACM Press
Full text available: pdf(96.37 KB) Additional Information: full citation, abstract, references, index terms

Distributed applications are notoriously difficult to develop and manage due to their inherent dynamics and heterogeneity of component technologies and network protocols. Middleware technologies dramatically simplify the development of distributed applications, but they still prove difficult to manage at runtime. This paper considers the "on-going" development of a framework that provides instrumentation and control services, which extend core middleware services, to realize the runtime manageme ...

Keywords: control, dependency management, instrumentation, jini technology, middleware

19 MADAPT: managed aspects for dynamic adaptation based on profiling techniques
Robin Liu, Celina Gibbs, Yvonne Coady
October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware ARM '04**
Publisher: ACM Press

Full text available: pdf(541.85 KB) Additional Information: full citation, abstract, references

An increasingly significant cost associated with dynamically adaptive middleware is the complexity of managing the code responsible for adaptive behaviour. It is not surprising that, due to the fine-grained nature of trace-data collection and the subtle adaptation that can result, more flexible systems are typically more complex to manage. This paper makes the case for using aspect-oriented programming (AOP) [6] as a means to achieve adaptive middleware based on fine-grained, customizable, pr ...

20 Software process support over the Internet

F. Maurer, G. Succi, H. Holz, B. Kötting, S. Goldmann, B. Dellen

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(650.84 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet, change notification, flexible workflow, process support, traceability

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